

ThermoView Ti30

Thermal Imaging and Temperature Measurement in One

Professional Thermal Imager for Predictive Maintenance



- Displays Thermal Image and Temperature
- Scans Quickly and Smoothly
- Includes InsideIR Software for Analysis and Reporting



Introducing the ThermoView Ti30
— the first affordable thermal
imager specifically designed for
predictive maintenance, with just what
maintenance professionals need to conduct
thermographic inspections anytime, anywhere.

Raytek®
A Fluke Company

ThermoView Ti30

Professional Thermal Imager for Predictive Maintenance



First of its kind, the ThermoView Ti30 thermal imager offers breakthrough performance for maintenance engineers, managers, crews—anyone who ever wanted to do thermographic inspections on their own terms. For optimal results and quick pay-back, professionals use the ThermoView Ti30 thermal imager in every inspection—not just in a crisis or for an annual maintenance check. Easily capture thermal images with the ThermoView Ti30 thermal imager during scanning with simple “click”

- 1 Record image**
- 2 Download image and data**
- 3 Create and share reports**
- 4 Evaluate success of follow-up actions**

of a trigger. Save images

for downloading into companion InsideIR software for qualitative and quantitative thermal imaging analysis and reporting. Preventive and predictive maintenance (PPM) programs are cost-effective with the ThermoView Ti30 thermal imager, an easy to use, rugged radiometric thermal imager featuring breakthrough performance at an unprecedented price.

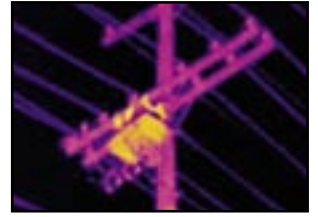
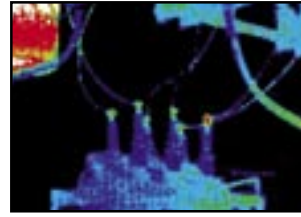
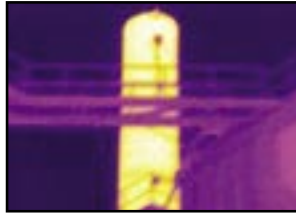
Included with ThermoView Ti30 Thermal Imager



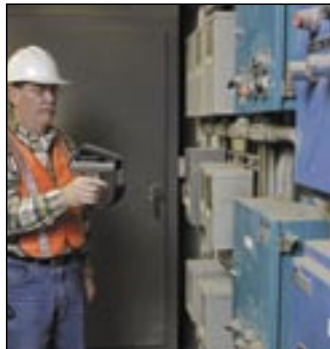
- Interactive User's Manual (CD ROM)
- InsideIR Companion Software
- Docking Station/Charger with Universal Power Adapter
- Hardshell Carrying Case
- USB Computer Cable
- Rechargeable Battery Pack
- Battery Tray (batteries not included)
- Multi-Language Training Materials (CD ROM)
- Carrying Pouch
- Quick Reference Card



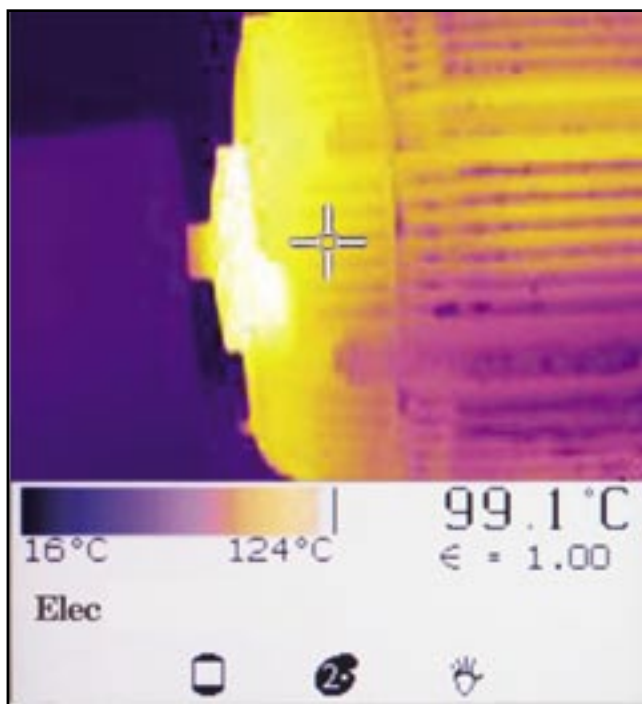
Preventive and Predictive Maintenance Programs



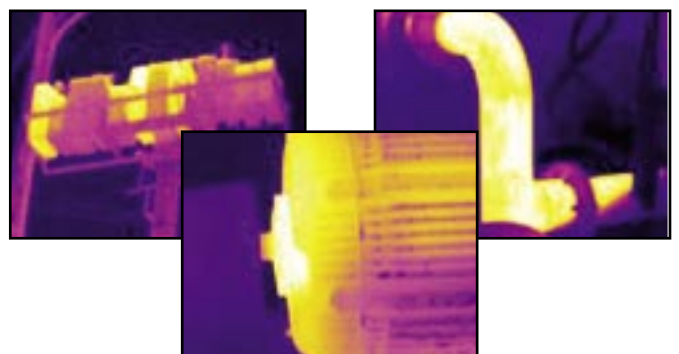
Preventive and predictive maintenance (PPM) programs can greatly minimize repair and labour costs, reduce inventory of parts, and avoid variation in product quality and production loss. Thermal imaging has emerged as an effective predictive maintenance technology by identifying variations that can lead to equipment failure. Gather more complete information with the ThermoView Ti30 thermal imager by assigning unique names and adding valuable comments to measurement locations during maintenance inspections. Download the thermal images and data into InsideIR software for analysis and placement of images and data into follow-up reports. Use the reports to document and assess repair status and to ensure consistent and repeatable measurements.



Recording Radiometric Readings



The ThermoView Ti30 thermal imager displays clear, clean thermal images while automatically recording radiometric readings for complete records. The laser functions as a sighting aid to help pinpoint the target, using a crosshatch at the center of the image to identify the temperature spot. The radiometric readings and accompanying thermal images are shown on the LCD screen for quantitative or qualitative reporting.



Solutions with InsideIR Software

ThermoView Ti30 thermal imager includes Windows® based PC application, InsideIR software for thermal analysis and reporting. Set the imager in its docking station to download fully calibrated thermal images in seconds to a PC with a press of a button. Temperature spots, histograms, isotherms, emissivity and reflected temperature compensation are some of the tools built into the software package.



Thumbnail view of
downloaded images



Reporting Screen

Minimum PC system requirements:

Microsoft® Windows®98, Windows 2000, Windows XP,
700 MHZ processor, 512 MB of RAM, 500 MB free hard disk space,
CD ROM drive, USB rev. 1.1, 800 x 600 display.

Note: Although Microsoft Access is not a requirement, users of Access 97
must upgrade to Access 2000 for InsideIR software to work properly.

Training

In addition to all of the great product features that come with the ThermoView Ti30 thermal imager, Raytek also offers training in Basic Thermal Imaging Theory and Applications*. The training is designed to shorten the learning curve typically associated with preventive and predictive maintenance (PPM) programs by providing key information on thermal imaging techniques, electrical and mechanical applications, and guidelines for implementing PPM programs. Included with the imager is an Interactive User's Manual, which provides product information and other valuable resources, such as an infrared theory guide and a primer on predictive maintenance.

* Contact Raytek for more information

Here's how easy

Gain control
Adjust the contrast
of the image



Focus Wheel
Focus the unit from 61cm
to infinity

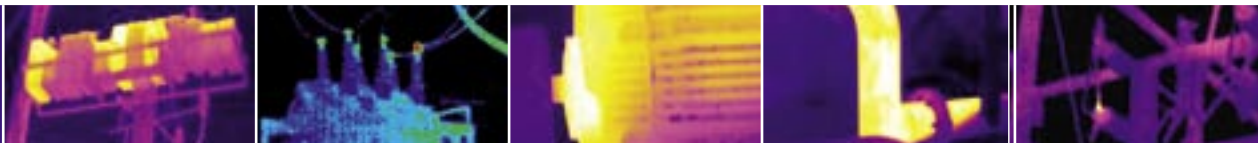
Trigger
Freeze an image prior to
storage or discard frozen
image without saving

Lens Cover
Open to turn power ON
Slide shut to turn power OFF

Docking Station
Both a recharging stand and data
communications connection



it is...



Level control
Adjust the brightness
of the image

Switch Bay
Controls for °F or °C,
LCD illumination,
palette selection,
measurement mode, and
laser on/off selections

Display



Down Button
Increment
parameter values

Mode Button
Cycle between the
different operations

Up Button
Decrement
parameter values

**USB Field
Connection**
Connect directly to
a laptop for
easy downloads

Battery Compartment
Rechargeable battery
pack or 6 AA batteries

ThermoView Ti30 Specifications and Features

Thermal	Thermal Measurement Range	-10 to 250°C
	Detector Type	120x160 thermal element focal plane array (FPA) uncooled microbolometer
	Accuracy	≥ 0°C: ±2% or ±2°C, whichever is greater < 0°C: ± 3°C
	Repeatability	±1% or ±1°C, whichever is greater
	NETD	200 mK
Optical/ IR	Temperature Indication Resolution	0.1
	Spectral Range	7-14 microns
	Target Sighting	Single Laser Dot (Meets IEC Class 2 & FDA Class II requirements)
	Optical Resolution	90:1
	Slit Response Optical Resolution	225:1
Controls	Minimum Diameter Measurement Spot	7mm at 60cm
	Image Frame Rate	20Hz
	Field of view (FOV)	17° Horizontal x 12.8° Vertical
	Instantaneous Field of view (IFOV)	1.9mrad
	Focus	Focusable, 61cm to infinity
Operational	Temperature Scale	°C or °F selectable
	Palettes	Gray, Ironbow or Rainbow selectable
	Measurement Modes	Automatic, Semi-Automatic, or Manual selectable
	Laser On/Off	✓
	Gain Control	✓
Electrical	Level Control	✓
	LCD Backlight	Bright, Dim, Off selectable
	Adjustable Emissivity * (0.10 to 1.00 by 0.01)	✓
	Liquid Crystal Display	TFT technology—optimized for both indoor and outdoor use
	Reflected Background Temperature	-50 to 460°C
Other	Ambient Operating Temperature	-10 to 50°C
	Relative Humidity	10 to 90% Non-condensing
	Storage Temperature	-25 to 70°C without batteries
	Storage Capacity	100 images
	Laser On Icon	✓
Accessories/ Options	Low Battery Icon	✓
	Palette Icon	✓
	Measurement Mode Icon	✓
	Thermal Analysis Software	InsidelR (included)
	PC Software Operating Systems	Microsoft® Windows® 98®, Windows 2000®, or Windows XP®
Options	Power	6 AA batteries (not included) or rechargeable battery pack (included)
	Battery Life	Min. 5 hours continuous use
	Data Transfer	USB interface, total transfer time 30s for 100 pictures
	Storage Device	Flash Memory
	Tripod Mount	6.35 mm (1/4) 20 unc threading
Standard Accessories	Weight (includes batteries)	1 kg
	Shock	30 G, IEC 68-2-29
	Vibration	2.5 G, IEC 68-2-6
	EMC	EN 16326-1
	Standard Accessories	• Multi-language Interactive Manual (CD ROM) • InsidelR Software • Docking Station with Universal Power Adapter and USB Connection • Hardshell Carrying Case • USB Computer Cable • Rechargeable and Non-rechargeable Battery Packs (batteries not included) • Multi-Language Thermography Training Presentation (CD ROM) • Carrying Pouch • Wrist Strap • Quick Reference Card
Options	Options	NIST Calibration certificate

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